## CLAIMS

- 1. A process for removing an oil-in-water emulsion from waste water that results from the production of a water-based product, said process comprising the following steps:
  - a) collect the emulsion waste water in a container,
  - add a quantity of a precipitation reagent with trivalent cations,
  - c) add a quantity of a base compound to adjust the pH of the waste water to approximately 6.5, which converts the trivalent cations to a gelatinous cation hydroxide precipitation and separates the emulsion from the waste water, and
  - d) separate the precipitation from the waste water by utilizing a filtration means.
- 2. The process as specified in claim 1 wherein said emulsion is comprised of positively or negatively charged colloids, such as pharmaceutical drugs and dairy products.
- 3. The process as specified in claim 1 wherein said quantity of a precipitation reagent is comprised of a trivalent compound.
- 4. The process as specified in claim 3 wherein said trivalent compound is comprised of potassium aluminum sulfate.

- 5. The process as specified in claim 3 wherein said trivalent compound is comprised of aluminum chloride.
- 6. The process as specified in claim 3 wherein said trivalent compound is comprised of ferric chloride.
- 7. The process as specified in claim 1 wherein said base compound is comprised of sodium bicarbonate.
- 8. The process as specified in claim 1 wherein said base compound is comprised of sodium carbonate.
- 9. The process as specified in claim 1 wherein said base compound is comprised of ammonia.
- 10. The process as specified in claim 1 wherein said base compound is comprised of sodium hydroxide.
- 11. The process as specified in claim 1 wherein said filtration means is comprised of vacuum filtration.
- 12. The process as specified in claim 1 wherein said filtration means is comprised of positive pressure filtration.
- 13. The process as specified in claim 1 wherein said filtration means is comprised of a centrifuge.